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On protein - protein search, using sw model

Run on: October 4, 2002, 07:38:15 ; Search time 18.3 Seconds
 (without alignments)
 1226.619 Million cell updates/sec

Title: US-08-153-397A-2
 Perfect score: 1
 Sequence: MGPEALSSLLLIVASGDA.....QRPPFSQLHRFLAEDALNTV 919

Scoring table: BLOSUM62
 Gappen 10.0, Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0 %
 Maximum Match 100 %

Listing first 45 summaries

Database : Issued Patents AA,*

1: /cgn2_6/podata/2/1aa/5A_COMB.pep:*

2: /cgn2_6/podata/2/1aa/5B_COMB.pep:*

3: /cgn2_6/podata/2/1aa/6A_COMB.pep:*

4: /cgn2_6/podata/2/1aa/6B_COMB.pep:*

5: /cgn2_6/podata/2/1aa/PCITUS_COMB.pep:*

6: /cgn2_6/podata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4928	100.0	919	1	US-08-336-343A-2
2	4882	99.1	913	1	US-08-445-640-4
3	4882	99.1	913	3	US-08-170-558-4
4	4882	99.1	913	3	US-08-447-314-4
5	4882	99.1	913	3	US-08-445-461-4
6	2404	48.7	855	1	US-08-336-343A-4
7	2402	48.7	854	2	US-08-456-647B-10
8	2402	48.7	854	2	US-08-237-401A-20
9	2157	44.0	399	1	US-08-445-640-8
10	2157	44.0	399	3	US-08-170-558-8
11	2157	44.0	399	3	US-08-447-314-8
12	2157	44.0	399	3	US-08-445-461-8
13	1657	33.8	317	2	US-08-701-191A-25
14	838	17.0	156	2	US-08-162-402B-20
15	648	13.1	821	1	US-08-444-622A-2
16	646	13.1	285	2	US-08-469-537A-73
17	645	13.1	822	2	US-08-359-705B-2
18	645	13.1	822	2	US-08-286-846A-2
19	645	13.1	822	2	US-08-457-880A-2
20	645	13.1	822	3	US-08-444-622A-2
21	645	13.1	822	4	US-08-942-562B-2
22	645	13.1	822	4	US-08-156-933A-2
23	645	13.1	847	1	US-08-286-305A-5
24	645	13.1	847	2	US-08-441-104A-2
25	645	13.1	847	2	US-08-440-816A-3
26	645	13.1	847	4	US-09-417-381A-5
27	643	13.0	US-08-469-537A-51	1	US-08-444-622A-5

ALIGNMENTS

RESULT	1	US-08-336-343A-2
Sequence 1, Appli	;	Sequence 2, Application US/08336343A
Patent No. 5671144	;	GENERAL INFORMATION:
APPLICANT: Ulrich, Axel	;	APPLICANT: Alves, Frauke
ATTORNEY/AGENT INFORMATION:	;	TITLE OF INVENTION: CCK-2, A NO. 5671144el Receptor Tyrosine Kinase
NAME: Coruzzi, Laura A.	;	NUMBER OF SEQUENCES: 43
REGISTRATION NUMBER: 30,742	;	CORRESPONDENCE ADDRESS:
REFERENCE/DOCKET NUMBER: 7683-065	;	ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas	;	CITY: New York
STATE: New York	;	STATE: New York
COUNTRY: U.S.A.	;	COUNTRY: U.S.A.
ZIP: 10036-2711	;	ZIP: 10036-2711
COMPUTER READABLE FORM:	;	COMPUTER TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS	;	COMPUTER: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30	;	OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:	;	APPLICATION NUMBER: US-08-7336-343A
FILED: 08-NOV-1994	;	CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:	;	TELEPHONE: (212) 869-9741/8864
NAME: Coruzzi, Laura A.	;	TELEFAX: (212) 869-9741/8864
REGISTRATION NUMBER: 30,742	;	TELEX: 66141 PENNIE
REFERENCE/DOCKET NUMBER: 7683-065	;	INFORMATION FOR SEQ ID NO: 2:
TELECOMMUNICATION INFORMATION:	;	SEQUENCE CHARACTERISTICS:
TYPE: amino acid	;	LENGTH: 919 amino acids
TOPOLOGY: unknown	;	MOLCULE TYPE: protein
US-08-336-343A-2	;	Query Match 100.0%; Score 4928; DB 1; Length 919; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0; Sequence 1, Appli
Db	1	1 MGPEALSSLLLIVASGDAADMKGHFDPAKCRYALGMDRTIPSDISASSSSWSDSTAR 60

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 Db 61 HSRLLESSDDGAWCPAGSVPKREBEYLQDQLQRHLVALVQGRHAGGLKEFSSRL 120
 QY 121 RYSRDRGRMGWKRQDGRQEVISGNEDPEGVWVLDLGPPMVARLVRFYRADRMSVCLRV 180
 Db 121 RYSRDRGRMGWKRQDGRQEVISGNEDPEGVWVLDLGPPMVARLVRFYRADRMSVCLRV 180
 QY 181 ELYGCLWRGLSLYTAPVGQTMILSEAVYLNDSTYDGHVQGJQYGGGQLADGVGLDD 240
 Db 181 ELYGCLWRGLSLYTAPVGQTMILSEAVYLNDSTYDGHVQGJQYGGGQLADGVGLDD 240
 QY 241 FRKSQELRWPQGYDVGWSNHSFSSGYEMEPEFDRLRAFOAMQVHCNMHTGARLPGG 300
 Db 301 VECFRFRGPAMAWEGPMPHRHNGLGPRAVAVSPVPLGGRVAFQFLCREFLAGPWLFS 360
 QY 361 EISFISDVNNSSPALGGTFPPAPWPPGPPTNFSSLELPRGQPVAKAGSPTAILI 420
 Db 361 EISFISDVNNSSPALGGTFPPAPWPPGPPTNFSSLELPRGQPVAKAGSPTAILI 420
 QY 421 GCLVAVAILLLITIALMLWRLHRLSLKAERRVLEELTIVLUSVPGTILINRPGRE 480
 Db 421 GCLVAVAILLLITIALMLWRLHRLSLKAERRVLEELTIVLUSVPGTILINRPGRE 480
 QY 481 PPPVQEPFRPGRGNPSPHSAPCPVPGNSALLISNPYRLLATYAPRPPRGCGPTAWAKPTNT 540
 Db 541 QAVSGDYMPEKPGAPLPPVONSPVHYAEDIVTLOGVGTNTYVAPLPGAVDGP 600
 QY 541 QAVSGDYMPEKPGAPLPPVONSPVHYAEDIVTLOGVGTNTYVAPLPGAVDGP 600
 QY 601 PRDDEPRSLRERKLGQFGFETHVLEFDSDQDLSDFPMLVNRKHPPLIAVLRPD 660
 Db 601 PRDDEPRSLRERKLGQFGFETHVLEFDSDQDLSDFPMLVNRKHPPLIAVLRPD 660
 QY 661 ATKNAFSLFLSRNDLFLKEVKIMSLRKLQPNITLIGVQDPLCMTDYMENGDNLQFLS 720
 Db 661 ATKNAFSLFLSRNDLFLKEVKIMSLRKLQPNITLIGVQDPLCMTDYMENGDNLQFLS 720
 QY 721 AHOLEDKRAEGPGDGAQAGQTISYPMILHQAOTASGMRLATINFHDLATNCLV 780
 Db 721 AHOLEDKRAEGPGDGAQAGQTISYPMILHQAQIAQSMRLATINFHDLATNCLV 780
 QY 781 GENETIKIADFGMSRNLYAGDYRGRAVLIRWAWECIMLGKTTASGWAFGTW 840
 Db 781 GENETIKIADFGMSRNLYAGDYRGRAVLIRWAWECIMLGKTTASGWAFGTW 840
 QY 841 EYLMCRAQPFQQLTDQVIEVAGERFDQGQVYLSRPPACPGQYELMTRCWSESEQ 900
 Db 841 EYLMCRAQPFQQLTDQVIEVAGERFDQGQVYLSRPPACPGQYELMTRCWSESEQ 900
 QY 901 RPPFSQHRLFLADALNTV 919
 Db 901 RPPFSQHRLFLADALNTV 919
 RESULT 2
 US-08-445-640-4
 ; sequence 4, Application US/08445640
 ; Patent No. 5709858
 ; GENERAL INFORMATION:
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Mark, Melanie R.
 ; APPLICANT: Scadden, David T.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Baron, Will F.
 ; TITLE OF INVENTION: Protein Tyrosine Kinases
 ; NUMBER OF SEQUENCES: 35

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PATIN (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/445,640
 FILING DATE: 22-MAY-1995
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/170558
 FILING DATE: 20-DEC-1993
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/157563
 FILING DATE: 23-NOV-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Haskin, Janet E.
 REGISTRATION NUMBER: 28,616
 REFERENCE/DOCKET NUMBER: 854C2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/952-8896
 FAX: 415/952-8891
 TELEFAX: 415/952-8891
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 913 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-445-640-4

Query Match 99.1%; Score 4882; DB 1; Length 913;
 Best Local Similarity 99.2%; Pred. No: 0; Mismatches 0; Indels 1; Gaps 1;
 Matches 912; Conservative 0; Mismatches 1; Indels 6; Gaps 1;

QY 1 MGEPAULSSLLILVAVSGDADKGKHFPAKCYALGMDRTIPDSIASSSSWSDSTAR 60
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 QY 61 HSRLLESSDDGAWCPAGSVPKREBEYLQDQLQRHLVALVQGRHAGGLKEFSSRL 120
 Db 61 HSRLLESSDDGAWCPAGSVPKREBEYLQDQLQRHLVALVQGRHAGGLKEFSSRL 120
 QY 121 RYSRDRGRMGWKRQDGRQEVISGNEDPEGVWVLDLGPPMVARLVRFYRADRMSVCLRV 180
 Db 121 RYSRDRGRMGWKRQDGRQEVISGNEDPEGVWVLDLGPPMVARLVRFYRADRMSVCLRV 180
 QY 181 ELYGCLWRGLSLYTAPVGQTMILSEAVYLNDSTYDGHVQGJQYGGGQLADGVGLDD 240
 Db 181 ELYGCLWRGLSLYTAPVGQTMILSEAVYLNDSTYDGHVQGJQYGGGQLADGVGLDD 240
 QY 241 FRKSQELRWPQGYDVGWSNHSFSSGYEMEPEFDRLRAFOAMQVHCNMHTGARLPGG 300
 Db 241 FRKSQELRWPQGYDVGWSNHSFSSGYEMEPEFDRLRAFOAMQVHCNMHTGARLPGG 300
 QY 301 VECFRFRGPAMAWEGPMPHRHNGGNDPRAVAVSPVPLGGRVAFQFLCREFLAGPWLFS 360
 Db 301 VECFRFRGPAMAWEGPMPHRHNGGNDPRAVAVSPVPLGGRVAFQFLCREFLAGPWLFS 360
 QY 361 EISFISDVNNSSPALGGTFPPAPWPPGPPTNFSSLELPRGQPVAKAGSPTAILI 420
 Db 361 EISFISDVNNSSPALGGTFPPAPWPPGPPTNFSSLELPRGQPVAKAGSPTAILI 420
 QY 421 GCLVAVAILLLITIALMLWRLHRLSLKAERRVLEELTIVLUSVPGDTILINRPGRE 480
 Db 421 GCLVAVAILLLITIALMLWRLHRLSLKAERRVLEELTIVLUSVPGDTILINRPGRE 480

QY 481 PPPYQEPRPGNPPHSAPCVNGSALLSNPAYRLLATYARPPRGPGPTPAWAKPTNT 540
 Db 481 PPPYQEPRPGNPPHSAPCVNGSALLSNPAYRLLATYARPPRGPGPTPAWAKPTNT 540

QY 541 QAYSGDYMPEKPGAPLPPPPQNSVPHYEADIVTLOGTGTGNTYAVPALPGAVGDGP 600
 Db 541 QAYSGDYMPEKPGAPLPPPPQNSVPHYEADIVTLOGTGTGNTYAVPALPGAVGDGP 600

QY 601 PRVDEPRSLRKFKEKGEGOFGEVHLCEDSPQDLSDFPLVNRKGHLVAVKLRPD 660
 Db 601 PRVDEPRSLRKFKEKGEGOFGEVHLCEDSPQDLSDFPLVNRKGHLVAVKLRPD 660

QY 661 ATKNASFSLFSRNDLKEVYIMSLRUDPNTRLUGVYQDPPCLMTDYMENGDLNQFLS 720
 Db 661 ATKNASFSLFSRNDLKEVYIMSLRUDPNTRLUGVYQDPPCLMTDYMENGDLNQFLS 720

QY 721 AHOLEDKAEGAPGDQAOQGPTISYPMUHVAQIAGSMRVLATNFWRDATRNCV 780
 Db 715 AHOLEDKAEGAPGDQAOQGPTISYPMUHVAQIAGSMRVLATNFWRDATRNCV 774

QY 781 GENITIKIADFGMSTNLNYAGDYRYVQGRAVLPRMAMWCILMGKFTTSDWARGVTLW 840
 Db 775 GENITIKIADFGMSTNLNYAGDYRYVQGRAVLPRMAMWCILMGKFTTSDWARGVTLW 834

QY 841 EVLMICRAQPFQGLTDEQVIEANGEFFRDRGQYTLSRPPACOGLYELMLRCWSRESEQ 900
 Db 835 EVLMICRAQPFQGLTDEQVIEANGEFFRDRGQYTLSRPPACOGLYELMLRCWSRESEQ 894

QY 901 RPPFSQLHRLAEDALNTV 919
 Db 895 RPPFSQLHRLAEDALNTV 913

RESULT 3
 US-08-170-558-4
 Sequence 4, Application US/08170558

GENERAL INFORMATION:
 APPLICANT: Godowski, Paul J.

APPLICANT: Mark, Melanie R.

APPLICANT: Sedden, David T.

APPLICANT: Baker, Kevin P.

APPLICANT: Baron, Will F.

TITLE OF INVENTION: Protein Tyrosine Kinases

NUMBER OF SEQUENCES: 35

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

ZIP: 94080

COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/170, 558
 FILING DATE: 22-NOV-1993
 CLASSIFICATION: 20-DEC-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/157563
 FILING DATE: 22-NOV-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Hasak, Janet E.
 REGISTRATION NUMBER: 28, 616
 TELECOMMUNICATION NUMBER: 854C1
 TELEPHONE: 415/225-1896
 TELEFAX: 415/952-9881
 TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 913 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-170-558-4

Query Match 99 1%; Score 4882; DB 3; Length 913;

Best Local Similarity 99 2%; Pred. No. 0; Mismatches 1; Indels 6; Gaps 1;

Matches 912; Conservative 0;

Query 1 MGPEALSSLLLIVASGDADMKGHDPKCKRYALGMQDRTIPSDISASSMSDSTAR 60

Db 1 MGPEALSSLLLIVASGDADMKGHDPKCKRYALGMQDRTIPSDISASSMSDSTAR 60

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Db 61 HSRJESSDGDGAWCAGSVPKEEYLQDQLQRLHVALVQGTCRAGLGKERSRL 120

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Db 121 RYSRDRRRNGWWDNRGQEVTSGNIDPCTGVVLKDGPPKARLYRFYPPADRYMSVCLRY 180

Query 181 ELYGCILWRDGLSISYAPVOTMYSSEAVVNLNDSTYDGHVYGGLQYGGQQLADGWGLD 240

Db 181 ELYGCILWRDGLSISYAPVOTMYSSEAVVNLNDSTYDGHVYGGLQYGGQQLADGWGLD 240

Query 241 FRKSCOLRVRGQYDVGWMSHRSSEGVYMEFEEDRFLRQAMQVHCNMHTGARLGG 300

Db 241 FRKSCOLRVRGQYDVGWMSHRSSEGVYMEFEEDRFLRQAMQVHCNMHTGARLGG 300

Query 301 VECRERRGRGAMAWECEPMRNLGNGLDRARAVSVPLGRVAFQPLFAGPWLF 360

Db 301 VECRERRGRGAMAWECEPMRNLGNGLDRARAVSVPLGRVAFQPLFAGPWLF 360

Query 361 EISFISDVNNSSPALGGTPPPWPPPPPTTLEPREGQPYAKAEGSPATL 420

Db 361 EISFISDVNNSSPALGGTPPPWPPPPPTTLEPREGQPYAKAEGSPATL 420

Query 421 GCLVAVILLILLILMLMLHWRLLSAERRVLEELTIVLVSVPGLGRVARFQCLPFLAGPWLF 480

Db 421 GCLVAVILLILLILMLMLHWRLLSAERRVLEELTIVLVSVPGLGRVARFQCLPFLAGPWLF 480

Query 481 PPPYQEPRPGNPPHSAPCVNGSALLSNPAYRLLATYARPPRGPGPTPAWAKPTNT 540

Db 481 PPPYQEPRPGNPPHSAPCVNGSALLSNPAYRLLATYARPPRGPGPTPAWAKPTNT 540

Query 541 QAYSGDYMPEKPGAPLPPPPQNSVPHYEADIVTLOGTGTGNTYAVPALPGAVGDGP 600

Db 541 QAYSGDYMPEKPGAPLPPPPQNSVPHYEADIVTLOGTGTGNTYAVPALPGAVGDGP 600

Query 601 PRVDEPRSLRKFKEKGEGOFGEVHLCEDSPQDLSDFPLVNRKGHLVAVKLRPD 660

Db 601 PRVDEPRSLRKFKEKGEGOFGEVHLCEDSPQDLSDFPLVNRKGHLVAVKLRPD 660

Query 661 ATKNASFSLFSRNDLKEVYIMSLRUDPNTRLUGVYQDPPCLMTDYMENGDLNQFLS 720

Db 661 ATKNASFSLFSRNDLKEVYIMSLRUDPNTRLUGVYQDPPCLMTDYMENGDLNQFLS 720

Query 721 AHOLEDKAEGAPGDQAOQGPTISYPMUHVAQIAGSMRVLATNFWRDATRNCV 780

Db 715 AHOLEDKAEGAPGDQAOQGPTISYPMUHVAQIAGSMRVLATNFWRDATRNCV 774

Query 781 GENITIKIADFGMSTNLNYAGDYRYVQGRAVLPRMAMWCILMGKFTTSDWARGVTLW 840

Db 775 GENITIKIADFGMSTNLNYAGDYRYVQGRAVLPRMAMWCILMGKFTTSDWARGVTLW 834

Query 841 EVLMICRAQPFQGLTDEQVIEANGEFFRDRGQYTLSRPPACOGLYELMLRCWSRESEQ 900

Db 835 EVLMICRAQPFQGLTDEQVIEANGEFFRDRGQYTLSRPPACOGLYELMLRCWSRESEQ 894

Query 901 RPPFSQLHRLAEDALNTV 919

RESULT 4
US-08-447-314-4
Sequence 4, Application US/08447314
; Patent No. 6087144
GENERAL INFORMATION:
APPLICANT: Scadden, David T.
APPLICANT: Baker, Kevin P.
APPLICANT: Baron, Will F.
TITLE OF INVENTION: Protein Tyrosine Kinases
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/447, 314
FILING DATE: 22 MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/170558
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/157563
FILING DATE: 23-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hask, Janet E.
REGISTRATION NUMBER: 28, 616
REFERENCE/DOCKET NUMBER: 854C1D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1896
TELEFAX: 415/952-9881
TELEX: 910371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 913 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-447-314-4

Query Match 99.1%; Score 4882; DB 3; Length 913;
Best Local Similarity 99.2%; Pred. No: 0;
Matches 912; Conservative 0; Mismatches 1; Indels 6; Gaps 1;

QY 1 MGPREALSSLLLVLVAGSDADMKGSHFDPAKCRYALGMQDPTIPSDISASSSWSTAAR 60
QY 1 MGPEALSSLLLVLVAGSDADMKGHDPAKCRYALGMQDPTIPSDISASSSWSDSTAAR 60
QY 61 HSRLESSDGCGAWCPAGSVPKKEEYLQDQLQRLHLVALVGQTGRHAGGKEFSSRSYR 120
QY 61 HSRLESSDGCGAWCPAGSVPKKEEYLQDQLQRLHLVALVGQTGRHAGGKEFSSRSYR 120
QY 121 RYSRDRGRMGWKGDRGQEVNISGNEDPECGVNLKGDPGPMARLYRFYPRDRVMVCLRY 180
QY 121 RYSRDRGRMGWKGDRGQEVNISGNEDPECGVNLKGDPGPMARLYRFYPRDRVMVCLRY 180
QY 181 ELYGCIWRDGLLSYTAPVGOTMYLEAVVNLNDSTYDGHVGGLQYGGLGQLADSYVGLD 240
QY 181 ELYGCIWRDGLLSYTAPVGOTMYLEAVVNLNDSTYDGHVGGLQYGGLGQLADSYVGLD 240
QY 241 FRPSQSLRWRPGYDVGWSNHSFSSGGIVVEMEFDRLRAFOAMQVHCNINHHTGARLPGG 300

RESULT 5
US-08-445-461-4
Sequence 4, Application US/08445461
; Patent No. 6096527
GENERAL INFORMATION:
APPLICANT: Godowski, Paul J.
APPLICANT: Mark, Melanie R.
APPLICANT: Scadden, David T.
APPLICANT: Baker, Kevin P.
APPLICANT: Baron, Will F.
TITLE OF INVENTION: Protein Tyrosine Kinases
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/445,461
 FILING DATE: 22-MAY-1995
 CLASSIFICATION: 530
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 09/170558
 FILING DATE: 20-DEC-1993
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 09/157563
 FILING DATE: 23-NOV-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Hasak, Janet E.
 REGISTRATION NUMBER: 28,616
 REFERENCE/DOCKET NUMBER: 854C3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/952-1986
 TELEFAX: 415/952-9881
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 913 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 S-08-445-461-4

Query Match
 Best Local Similarity 99.1%; Score 4882; DB 3; Length 913;
 Matches 912; Conservative 0; Mismatches 1; Indels 6; Gaps 1;
 Y 1 MGPEALSSLILLLVAVSGPAGDMKGHFDPAKRYALGMQDRTIPDSIDASSWSDSTAAR
 b 1 MGPBPEALSSLILLLVAVSGDADMKGHFDPAKRYALGMQDRTIPDSIDASSWSDSTAAR 60
 61 HSRLLESSDGAGNCPAGSVFPEKSYLQDQRLHLVALVGTQGRHAGGIGKEFSYRL 120
 b 61 HSRIESSPGDGAGNCPAGSVFPEKSYLQDQRLHLVALVGTQGRHAGGIGKEFSYRL 120
 121 RYSDGRGRNGWDRWGOEVISNEDPEGSVLKDQGPPMVARLVFYPRADRMVCLRV 180
 121 RYSDGRGRNGWDRWGOEVISNEDPEGSVLKDQGPPMVARLVFYPRADRMVCLRV 180
 181 ELYGCLWLADGLSYTAPQGOTMISEAVYLNDSTYDGHYVGLQYGGGLQADGVGLDD 240
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 241 FRKSOELRVWPGYDVGNSNHSSSGYVEMEEFDRLRAFOAMQVHCNNHTLGLARLPGG 300
 241 FRKSOELRVWPGYDVGNSNHSSSGYVEMEEFDRLRAFOAMQVHCNNHTLGLARLPGG 300
 301 VCCRFRRGPMAMWEGEPGRHNGNLGDPRAVSVPLGGRARVPLQCRFLFAGPWLFS 360
 301 VCCRFRRGPMAMWEGEPGRHNGNLGDPRAVSVPLGGRARVPLQCRFLFAGPWLFS 360
 361 EFSFISDWNNSPAGGGTFFPAPWWPGCPPPPINFFSLELPRGQOPVAKAEGSTAILI 420
 361 EFSFISDWNNSPAGGGTFFPAPWWPGCPPPPINFFSLELPRGQOPVAKAEGSTAILI 420
 421 GCLVAVAILLLILALMWRLHRRLLSKAERRYLEELTVHISVPGDTILLINRPGPRE 480
 421 GCLVAVAILLLILALMWRLHRRLLSKAERRYLEELTVHISVPGDTILLINRPGPRE 480
 481 PPyQEPRPRGPGRPHSAACPVPGSALLSNPAVRLAYARPRPGCPPTPAWAKPTN 540
 481 PPyQEPRPRGPGRPHSAACPVPGSALLSNPAVRLAYARPRPGCPPTPAWAKPTN 540
 541 QYSGDMEPERFGAPLPPPPQNSPVPHYAADIVTLOGTGGNTYAVPALPPGAVDGP 600
 541 QYSGDMEPERFGAPLPPPPQNSPVPHYAADIVTLOGTGGNTYAVPALPPGAVDGP 600
 601 PRVDFPRSLRKEKLGQFCEVHLCEDVSDPDLVSDPFLNPKGHBLVAVKILRD 660
 601 PRVDFPRSLRKEKLGQFCEVHLCEDVSDPDLVSDPFLNPKGHBLVAVKILRD 660
 661 RLESSDGAGNCPAGSVFPEKSYLQDQRLHLVALVGTQGRHAGGIGKEFSYRL 720
 661 RLESSDGAGNCPAGSVFPEKSYLQDQRLHLVALVGTQGRHAGGIGKEFSYRL 720

QY 661 ATKNAESLESRNFLKEKIMSKRDKPNKIRLAVGQVDDPLMTIDMENGDNQELS 720
 Db 661 ATKNA-----RNDFKETKIMSRLKDPNIRLQGCVQDDPLCMTIDMENGDNQELS 714
 QY 721 AHQLEDKAAEGAPGDQGAQGPTISYPMILHVAQIASGMYLATNFYRHDIAATRNCY 780
 Db 715 AHQLEDKAAEGAPGDQGAQGPTISYPMILHVAQIASGMYLATNFYRHDIAATRNCY 774
 QY 781 GENITKIDFGMSRNLYAGDYYRVQGRAVLPIRMWACILMCKFTASDWVAFGVITW 840
 Db 775 GENITKIDFGMSRNLYAGDYYRVQGRAVLPIRMWACILMCKFTASDWVAFGVITW 834
 QY 841 EVLMICRAOPFGQTLDEQVTEAGEFRODGROYLSRSPACPGYLYMLRCWSRSQ 900
 Db 835 EVLMICRAOPFGQTLDEQVTEAGEFRODGROVYLSRSPACPGYLYMLRCWSRSQ 894
 QY 901 RPPSQLRFLAEDALNTV 919
 Db 895 RPPSQLRFLAEDALNTV 913

RESULT 6
 US-08-336-343A-4
 ; Sequence 4, Application US/08336343A
 ; Patent No. 5677144
 ; GENERAL INFORMATION:
 ; APPLICANT: Ulrich, Axel
 ; APPLICANT: Alves, Frauke
 ; TITLE OF INVENTION: CCK-2, A NO. 5677144el Receptor Tyrosine Kinase
 ; NUMBER OF SEQUENCES: 43
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Pennie & Edmonds
 ; STREET: 1155 Avenue of the Americas
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 10036-2711
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/336, 343A
 ; FILING DATE: 08-NOV-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Cottuzzi, Laura A.
 ; REGISTRATION NUMBER: 30,742
 ; REFERENCE/DOCKET NUMBER: 7683-065
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 769-9080
 ; TELEFAX: (212) 869-9741/8864
 ; TELEX: 60141 PENNIE
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 855 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: protein
 ; US-08-336-343A-4

Query Match
 Best Local Similarity 48.8%; Score 2404; DB 1; Length 855;
 Matches 482; Conservative 118; Mismatches 227; Indels 104; Gaps 16;
 QY 3 PEALSSLILLLVAVSGDADMKGHFDPAKRYALGMQDRTIPDSIDASSWSDSTAARH 62
 Db 5 PRMLVFLPILS--SARQVNPAICRIPLGMSGQIPEDEDITASSONSESTARYG 61
 QY 63 RLESSDGAGNCPAGSVFPEKSYLQDQRLHLVALVGTQGRHAGGIGKEFSYRL 121

Db 62 RDSEEGPGCACPPIPVERPDDKREFLQIDHLTHFILTVGIGRGRHAGHGIEFAPWYKIN 121
 Qy 122 YSRGRGRMGWIKDRMGEQEVISGNSNEDPEGVVLDLKGPPMVARLYRFRYRADRVMSCVRL 181
 Db 122 YSRDGTRKNSWIRHKGQVLDGSNSNPDIKLEPPIVARVFRFVFLPVTDHSMNCVRL 181
 Qy 182 LYGLCLWRQGULLSTAPVGQTMW--SERVYLNDSTYDGTGTYGLQXGGIGLQADGVGLD 239
 Db 182 LYGCWVLDGLVSVINAPAGQFVPLGGSTIYLNDSVYDG-AVGSYMTTEGLGQLTGVSGLD 240
 Qy 240 DFKSQELRVWPGYDVGWSNHSFSSVYEMFEFDLRAFOAMQVHCNNMHTLGRALPG 299
 'Db 241 DFTQTHEYHVGWPGYDVGWSNHSFSSVYEMFEFDLRAFOAMQVHCNNMHTLGRALPG 300
 Qy 300 GVECRFRGPGAMWEGPMRHMIGGNGJGDRPRAVAVSPLGGVARETQCRFLFGWPLF 359
 Db 301 EYQCYF-RSEASWEPNAISFFLFLDVNVPSARFVPLHHRMASAIKCOHFADTWMMF 359
 Qy 360 SELSFISD-WVNNSSPAGGTTPAPWMPGPQPPNTFSSLEPREGQOPVKAEGSPATAI 418
 'Db 360 SETFQSDAMMNNESEAL--PTSP-----MAPTTDPMKLVDDSNTRI 400
 Qy 419 LGCLCLVATILLILALMRLHWRLLSKERRVLEELTIVHLSVPGDTILINR--P 476
 Db 401 LGCLCLVATILLILALMRLHWRLLSKERRVLEELTIVHLSVPGDTILINR--P 476
 Qy 477 GRREP-----PPKOPRPRGNPPHSAPCVPNGSALLSNPAYRLLATYARP 523
 Db 461 SSEQGSNTVYRIFPLRDYQEP-----SRLRKLPF-----SRLRKLPF----- 494
 Qy 524 PRGGPPPTPAWAKPTNTQAYSDYMEKEPGAPLPPPPONSPHYREADVTLQGVTGG 583
 Db 495 -----APGEEEGCGSVVVKPVQVSPG-----EGVPHYAEADIVNLQGVTTG 535
 Qy 584 NTYAVPVALPPGPGVGDGPPR-DEPRSLRFLERKLGSGQFGEVHLCEVSDPQDLSLDFPL 642
 'Db 536 NTYAVPVALPPGPGVGDGPPR-DEPRSLRFLERKLGSGQFGEVHLCEVSDPQDLSLDFPL 595
 Qy 643 NTRKGHLPLVAKILRDLRDKAHSFSLFSRNDPLKEVIMKSRKDPNIRJLGVQVDDP 702
 'Db 596 DYSANOPVLTAKMLRADAKNA-----RNDLKEKIMSRKDPNIIHLASVCTDDP 649
 Qy 703 LKMTDMEGLDNLQFSAHOLEDKAEGAGDQGQAQGPITSYPMILHVAAQISGRY 762
 'Db 650 LKMTDMEGLDNLQFSLRHE-----PPNSSSDVRTVSYTNKFMATQASGMK 700
 Qy 763 LATLNFYHDLATRNCLVNGENTIKIAFDGMSRNLTAGDYFVQGRAVLPIRMACEIL 822
 'Db 701 LSSLNFYHDLATRNCLVNGENTIKIAFDGMSRNLTAGDYFVQGRAVLPIRMACEIL 760
 Qy 823 MKFETRASDWAHFGVILWEMLMCRAQPFQGQDTEOVIENAGEFFRDQGROVYLSRRPAC 882
 'Db 761 LKFTETRASDWAHFGVILWETTFPCQDQPSYSLSDQEVIENTGEFRDQGQTYLQPAIC 820
 Qy 883 PGSVYELMLRWSRSRQPPPSQFLAE 913
 'Db 821 PDSVYKMLSCWRDTRKNSPQEIHLLQ 851
 Result 7 US-08-456-647B-20
 Sequence 20, Application US/08456647B
 Patent No 5815156
 GENERAL INFORMATION:
 APPLICANT: Lemke, Ph.D. et al., Greg E.
 TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES
 NUMBER OF SEQUENCES: 54
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson, P.C.
 STREET: 4225 Executive Square, Suite 1400
 CITY: La Jolla
 STATE: CA
 COUNTRY: US
 ZIP: 92037
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/456,647B
 FILING DATE: 02-JUN-1995
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/237,401
 FILING DATE: 02-MAY-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/884,486
 FILING DATE: 15-MAY-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Wehrell, Ph.D., John R.
 REGISTRATION NUMBER: 31,678
 REFERENCE/DOCKET NUMBER: 07251/007002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 678-5070
 TELEFAX: (619) 678-5099
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 854 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-456-647B-20
 Query Match 48.7%; Score 2402; DB 2; Length 854;
 Best Local Similarity 51.9%; Pred. No. 8 8e-64; Gaps 16;
 Matches 481; Conservative 119; Mismatches 220; Indels 106; Gaps 16;
 Db 536 NTYAVPVALPPGPGVGDGPPR-DEPRSLRFLERKLGSGQFGEVHLCEVSDPQDLSLDFPL 595
 Qy 9 LKMTDMEGLDNLQFSAHOLEDKAEGAGDQGQAQGPITSYPMILHVAAQISGRY 68
 'Db 10 VLLLILGSA--KAOVNPATCPRYLGMSGSHIPBDITASSOWESTAKYGRDSEE 67
 Qy 69 GDGAWCPAGSVPKP-DEYLQDQLRQLHVALVGTGRRHAGGKFERSRVLRVYRSGR 127
 'Db 68 GDGAWCPAGSVPKP-QDJKFLDRLRHLFILTVGIGRGRHAGHGIEFAPWYKINSRDG 127
 Qy 128 RKGWGDWRGQBVISGNSNEDPEGVVLDLKGPPMVARLYRFRYRADRVMSCVRL 187
 'Db 128 RKGWGDWRGQBVISGNSNEDPEGVVLDLKGPPMVARLYRFRYRADRVMSCVRL 187
 Qy 188 RDGLSYTAPVGQTMW--SERVYLNDSTYDGTGTYGLQXGGIGLQADGVGLD 245
 'Db 188 LDGLSYTAPVGQTMW--SERVYLNDSTYDGTGTYGLQXGGIGLQADGVGLD 246
 Qy 246 ELRVWGYDVGWSNHSFSSGVEMFEFDLRAFOAMQVHCNNMHTLGRALPGVGCRC 305
 'Db 247 EYHVGWPGYDVGWSNHSFSSGVEMFEFDLRAFOAMQVHCNNMHTLGRALPGVGCRC 306
 Qy 306 RRGPMAMWEGPMRHMIGGNGLQGDPRARAVSPLGGVARETQCRFLFGWPLFSEBISI 365
 'Db 307 -RSEASWEPAPVYFLFLDVNVPSARFVPLHHRMASAIKCOHFADTWMMFSEITFQ 365
 Qy 366 SD--VWNNSSPALGFPFPAPWMPGPPPTFSSLEPREGQOPVKAEGSPATAI 423
 'Db 366 SDAMYNN-----GALPTSP-----MAPTTDPMKLVDDSNTRI 405
 Qy 424 VAIILLILALMRLHWRLLSKERRVLEELTIVHLSVPGDTILINR--PGPR 479
 'Db 406 VAIILLILALMRLHWRLLSKERRVLEELTIVHLSVPGDTILINR--PGPR 465
 Qy 480 EP-----PPKOPRPRGNPPHSAPCVPNGSALLSNPAYRLLATYARP 528
 'Db 466 ENSYDRIFPLRDYQEP-----SRLRKLPF-----SRLRKLPF----- 494
 Qy 529 PPTPAWAKPTNTQAYSGDVMPEPEPGCAPLPLPPPPQNSVPHYAEADIVTLQGVTGGNTYAV 588

RESULT 8

US-08-237-401A-20

Sequence 20, Application US/08237401A

Patent No. 5,37448

GENERAL INFORMATION:

APPLICANT: Lemke, Ph. D. et al., Greg E.

TITLE OF INVENTION: PROTEIN-TYROSINE KINASE GENES

NUMBER OF SEQUENCES: 54

CORRESPONDENCE ADDRESS:

ADRESSEE: Fish & Richardson P.C.

STREET: 4225 Executive Square, Suite 1400

CITY: La Jolla

STATE: CA

COUNTRY: US

ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/237,401A

CLASSIFICATION: 435-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/884,486

FILING DATE: 15-MAY-1992

ATTORNEY/AGENT INFORMATION:

NAME: Haile, Ph.D., Lisa A.

REGISTRATION NUMBER: 38,347

REFERENCE/DOCKET NUMBER: 07251-007001

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 678-5070

TELEFAX: (619) 678-5059

INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:

LENGTH: 854 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-237-401A-20

RESULT 9

US-08-445-640-8

; Sequence 8, Application US/08445640

; Patent No. 5709858

; GENERAL INFORMATION:

APPLICANT: Godowski, Paul J.

Matches 481; Conservative 119; Mismatches 220; Indels 106; Gaps 16;

QY 9 LLLLYVPSGDAWMKGHDPAKCRYALGMORTIPSDISASSNSDSTARHSRLES SD 68

Db 10 VVLLLILGSA--KAVNPACTCRYELGMSGHIFPDDITSSQWESTAKYGLDSE 67

QY 69 GDGAWCPAGSVPEKE-EYLYDYLQRLHVALVGTGRRHAGLGKFSRSYRLYRSRGR 127

Db 68 GDGAWCPPEIPVOPDDEKFLQDLRLHIFTLVGTGRRHAGGHTEFAPMVKYNSRDGS 127

QY 128 RANGWKRRGQVVISGEDPECWVLDGPPMAMCEILMGKFT 187

Db 128 RNTSWRNRHGKQYLDGNSNPYDVFQLEPIVARYPVLTFITVDSMNVCNVELYGVW 187

QY 188 RQLLSITAPVQGTMV--SEAVYLNDSTYDGTVGGLQXGGLQIADGVGLDDFRKRSQ 245

Db 188 LDGLVSNAPQGQFVPGGSIYLVDVYQ-AVYQSMTEGGLQITDGVGLDDFTQ 245

QY 246 ELRVWPGDYVGWSNHSFSSGTVEMEPFDRUAFORMQVHNMMTGLARLPGVSECRF 305

Db 247 EXHVWPGDYVGWRNERSAINGFIEIMFEDRINFTTMVKHCNNMFAKGVKIFQEVCF 306

QY 306 RRGPAWAEGEPMRHNIGNGDPRARAVSPLGGVARELOCRELAGWLFSEISI 365

Db 307 -RSEASEWEPPTAVYFPLVDDVNPSARFVTPHLHRSATKCOHTHFADTWMMSEITFQ 365

QY 366 SD--VVNNSPALGGFPAPPWWPPGPPPTNFSSLEPROQQPVAKAEGSPATLIGCL 423

Db 366 SDAAMTNNS---GALPTSP-----MAPTYDPMKVDNSNTRILIGCL 405

QY 424 VAIILLLTIALMLWHLWRLSKARRVYLEELTVHISVPGTILINR---PGPR 479

Db 406 VAIFIILAIIVILWLRQFWOMLEKASRRMIDDETSVLSLPSSESSMNNRSPSEQ 465

QY 480 EP-----PPQERRGNPNSHARCPVNSALLSNPARIILATYRPPRG 528

Db 466 ESNSTDTRIFPLRDPQEP-----SRLRKLPEF----- 494

QY 529 PPTPAWAKPTNQAYSGDYMPEPKGAPLLPPPQPNVSPHYAEDTVTQGVTGNTYAV 588

Db 495 -----APGEESGCGVWRAQPN-----EGVPHIAEATVNTLQVTGNTYCV 540

QY 589 PALPPGAVGDGPPRV-DPRLRFLKEKLRGQFGEVHLCBEVSDPSDLVSLDFPLNRYK 647

Db 541 PAVTMOLLSKGKVAVEEFPKLLAFKEKLGQFGEVHLCBEVEGMEFKDKDFALDSAN 600

QY 648 HPLLVAVKLLRDPATNASELFSRDLFKEKVKISRKPNLILGQVODDPLCMT 707

Db 601 QPVLVAVKMLRADANKNA----RNDFLAKBIMSKRKPNTIRLAVCITEDPLCMT 654

QY 708 DYMENGDLNQLSAHOLEDKAREGAPGQAOQPTISYPMHLHQAQTSQGMRYLATN 767

Db 655 EYMEGDLNQLSAHOLEDKAREGAPGQAOQPTISYPMHLHQAQTSQGMRYLATN 704

QY 768 FVHDLATRNLVGENFTIKTADFGNSRNYAGDVTYRQGRAVLPIRMWAECLMGKFT 827

Db 705 FVHDLATRNLVGENFTIKTADFGNSRNYAGDVTYRQGRAVLPIRMWAECLMGKFT 764

QY 828 TADWVAFGVTLWETTFCOBQPSQLSDEQVIENTGEFRDQGRQYI,SRPPACQGYX 887

Db 765 TADWVAFGVTLWETTFCOBQPSQLSDEQVIENTGEFRDQGRQYI,SRPPACQGYX 824

QY 888 EMLRWRWRESEQRPPFSQHRLFAE 913

Db 825 KMLSCWRREKHRPSFOEHLILQ 850

Query Match, Score 2402; DB 2; Length 854;
Best Local Similarity 51.9%; Pred. No. 8.8e-164;

APPLICANT: Mark, Melanie R.
 APPLICANT: Scadden, David T.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Baron, Will F.
 TITLE OF INVENTION: Protein Tyrosine Kinases
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/445,640
 FILING DATE: 22-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/170558
 FILING DATE: 20-DEC-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/157563
 FILING DATE: 22-NOV-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Hasak, Janet E.
 REGISTRATION NUMBER: 28,616
 REFERENCE/DOCKET NUMBER: 854C2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/932-1896
 TELEFAX: 415/932-9881
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 399 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-445-640-8

Query Match 44.0%; Score 2167; DB 1; Length 399;
 Best Local Similarity 99.7%; Pred. No. 2,2e-147;
 Matches 398; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 19 DADMKHEDPAKCRYALGMQDRTPDSDISASSSSWSSTAARHSRLESSESDGGAWCPGS 78
 1 DADMKHEDPAKCRYALGMQDRTPDSDISASSSSWSSTAARHSRLESSESDGGAWCPGS 60
 DB 1 DADMKHEDPAKCRYALGMQDRTPDSDISASSSSWSSTAARHSRLESSESDGGAWCPGS 60

QY 79 VPKKEEYLQVDIQLRHLVALVGTQGRHAGGLGEKFSSRSYRLYSRDRGRWKGWRGQ 138
 1 VPKKEEYLQVDIQLRHLVALVGTQGRHAGGLGEKFSSRSYRLYSRDRGRWKGWRGQ 120

QY 139 EV1SGNEDPEGYVLUKDGPPMARMVLYPRADRVMSVCLRLYVGLQGLADGVGLDPLSLTAPV 198
 121 EV1SGNEDPEGYVLUKDGPPMARMVLYPRADRVMSVCLRLYVGLQGLADGVGLDPLSLTAPV 180

QY 199 GQIMKLSSEAVLNLDSTYDHTVGLQYGLQGLADGVGLDPLSKRKSQELRYWPGDVGW 258
 181 GQIMKLSSEAVLNLDSTYDHTVGLQYGLQGLADGVGLDPLSKRKSQELRYWPGDVGW 240

QY 259 SNHFSGGYVEMEFDRRLRAFOAMQVHCNNNHTLGLRPGVCECPRRGAMAWGEGP 318
 241 SNHFSGGYVEMEFDRRLRAFOAMQVHCNNNHTLGLRPGVCECPRRGAMAWGEGP 300

QY 319 RHNLLGGNGDPRARAVSVPLGGRVAPRLQCRFLFAPWLFSEISISDWVNNSPALGG 378
 301 RHNLLGGNGDPRARAVSVPLGGRVAPRLQCRFLFAPWLFSEISISDWVNNSPALGG 360

Gy 379 TFPAPWMPGPPPTNSSLERPGQOPVAKAEGSPTA 417

RESULT 10
 US-08-170-558-8
 Sequence 8, Application US/08170558
 Patent No. 6001621
 GENERAL INFORMATION:
 APPLICANT: Godowski, Paul J.
 APPLICANT: Mark, Melanie R.
 APPLICANT: Scadden, David T.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Baron, Will F.
 TITLE OF INVENTION: Protein Tyrosine Kinases
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: patin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/170-558
 FILING DATE: 20-DEC-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/157563
 FILING DATE: 22-NOV-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Hasak, Janet E.
 REGISTRATION NUMBER: 28,616
 REFERENCE/DOCKET NUMBER: 854C1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/932-1896
 TELEFAX: 415/932-9881
 TELEX: 910/371-7168
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 399 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-170-558-8

Query Match 44.0%; Score 2167; DB 3; Length 399;
 Best Local Similarity 99.7%; Pred. No. 2,2e-147; Matches 398; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 19 DADMKHEDPAKCRYALGMQDRTPDSDISASSSSWSSTAARHSRLESSESDGGAWCPGS 78
 1 DADMKHEDPAKCRYALGMQDRTPDSDISASSSSWSSTAARHSRLESSESDGGAWCPGS 60

QY 79 VPKKEEYLQVDIQLRHLVALVGTQGRHAGGLGEKFSSRSYRLYSRDRGRWKGWRGQ 138
 1 VPKKEEYLQVDIQLRHLVALVGTQGRHAGGLGEKFSSRSYRLYSRDRGRWKGWRGQ 120

QY 139 EV1SGNEDPEGYVLUKDGPPMARMVLYPRADRVMSVCLRLYVGLQGLADGVGLDPLSLTAPV 198
 121 EV1SGNEDPEGYVLUKDGPPMARMVLYPRADRVMSVCLRLYVGLQGLADGVGLDPLSLTAPV 180

QY 199 GQIMKLSSEAVLNLDSTYDHTVGLQYGLQGLADGVGLDPLSKRKSQELRYWPGDVGW 258
 181 GQIMKLSSEAVLNLDSTYDHTVGLQYGLQGLADGVGLDPLSKRKSQELRYWPGDVGW 240

QY 259 SNHFSGGYVEMEFDRRLRAFOAMQVHCNNNHTLGLRPGVCECPRRGAMAWGEGP 318
 241 SNHFSGGYVEMEFDRRLRAFOAMQVHCNNNHTLGLRPGVCECPRRGAMAWGEGP 300

QY 319 RHNLLGGNGDPRARAVSVPLGGRVAPRLQCRFLFAPWLFSEISISDWVNNSPALGG 378
 301 RHNLLGGNGDPRARAVSVPLGGRVAPRLQCRFLFAPWLFSEISISDWVNNSPALGG 360

Gy 379 TFPAPWMPGPPPTNSSLERPGQOPVAKAEGSPTA 417

Db 361 TPPAPWMPGPPPTNSSLERPGQOPVAKPEGSPTA 399

Db 199 GOTMILSEAVLNLDSTYDHTVGLQYGLQGLADGVGLDPLSKRKSQELRYWPGDVGW 258

Db 181 GOTMILSEAVLNLDSTYDHTVGLQYGLQGLADGVGLDPLSKRKSQELRYWPGDVGW 240

QY 259 SNHFSGGYVEMEFDRRLRAFOAMQVHCNNNHTLGLRPGVCECPRRGAMAWGEGP 318

Db 241 SNHSFSSGGYVEMEFDRLRAFQAMQVHCNNMHTGARLPGGVCEFRRGPMAMWEGEPM 300
 QY 319 RHNLLGGNLGDRARRAVSPLGGRVAFPLQCLRFAGPWLESEISISDVNNNSPALGG 378
 Db 301 RHNLLGGNLGDRARRAVSPLGGRVAFPLQCLRFAGPWLESEISISDVNNNSPALGG 360
 QY 379 TPPAPAWPPGPPPTNNSLELEPRQOQPVAKAEQSPTA 417
 Db 361 TPPAPAWPPGPPPTNNSLELEPRQOQPVAKPEGSPTA 399

RESULT 11
 US-08-447-314-8
 Sequence 8, Application US/08447314
 Patent No. 6087144
 GENERAL INFORMATION:
 APPLICANT: Scadden, David T.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Baron, Will F.
 TITLE OF INVENTION: Protein Tyrosine Kinases
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080

COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/447,314
 FILING DATE: 22-MAY-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/170558
 FILING DATE: 20-DEC-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Hasak, Janet E.
 REGISTRATION NUMBER: 28,616
 REFERENCE/DOCKET NUMBER: 854C1D2

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/225-1896
 TELEFAX: 415/952-9881
 TELEX: 910371-7168

INFORMATION FOR SEQ ID NO: 8 :

SEQUENCE CHARACTERISTICS:
 LENGTH: 399 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-447-314-8

Query Match 44.0%; Score 2167; DB 3; Length 399;
 Best Local Similarity 99.7%; Pred. No. 2.2e-147; Indels 0; Gaps 0;
 Matches 398; Conservative 0; Mismatches 1;

QY 19 DADMKGHFDPAKCRVALGMDRTRPSDSDTASSSNSDSTARHRSRLESSDGGDGMCPAGS 78
 Db 1 DADMKGHFDPAKCRVALGMDRTRPSDSDTASSSNSDSTARHRSRLESSDGGDGMCPAGS 60

QY 79 VPKKEEYQYDQLRHLVAVLVTGGRHAGGLGKFRSRSYRLRSRDGRWMGRDRWQ 138
 Db 61 VPKKEEYQYDQLRHLVAVLVTGGRHAGGLGKFRSRSYRLRSRDGRWMGRDRWQ 120

QY 139 EVISGNEDPFGVVKLDGPMARLVRVYPRADRMSVCLREVLYGCLWDGLSISYAPV 180
 Db 121 EVISGNEDPFGVVKLDGPMARLVRVYPRADRMSVCLREVLYGCLWDGLSISYAPV 180
 QY 199 GOTWYIISFAVYIINDSTYDGHVTGQYLGQQLADGVGLDFRKSQELRWPQGTYW 258
 Db 181 GOTWYIISFAVYIINDSTYDGHVTGQYLGQQLADGVGLDFRKSQELRWPQGTYW 240
 QY 259 SNHSFSSGGYVEMEFDRLRAFQAMQVHCNNMHTGARLPGGVCEFRRGPMAMWEGEPM 318
 Db 241 SNHSFSSGGYVEMEFDRLRAFQAMQVHCNNMHTGARLPGGVCEFRRGPMAMWEGEPM 300
 QY 319 RHNLLGGNLGDRARRAVSPLGGRVAFPLQCLRFAGPWLESEISISDVNNNSPALGG 378
 Db 301 RHNLLGGNLGDRARRAVSPLGGRVAFPLQCLRFAGPWLESEISISDVNNNSPALGG 360
 QY 379 TPPAPAWPPGPPPTNNSLELEPRQOQPVAKAEQSPTA 417
 Db 361 TPPAPAWPPGPPPTNNSLELEPRQOQPVAKPEGSPTA 399

RESULT 12
 US-08-445-461-8
 Sequence 8, Application US/08445461
 Patent No. 606527
 GENERAL INFORMATION:
 APPLICANT: Godowski, Paul J.
 APPLICANT: Mark, Melanie R.
 APPLICANT: Scadden, David T.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Baron, Will F.
 TITLE OF INVENTION: Protein Tyrosine Kinases
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genentech, Inc.
 STREET: 460 Point San Bruno Blvd
 CITY: South San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94080

COMPUTER READABLE FORM:
 MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/445,461
 FILING DATE: 22-MAY-1995
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/170558
 FILING DATE: 20-DEC-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/157563
 FILING DATE: 23-NOV-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Hasak, Janet E.
 REGISTRATION NUMBER: 28,616
 REFERENCE/DOCKET NUMBER: 854C3

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415/225-1896
 TELEFAX: 415/952-9881
 TELEX: 910371-7168

INFORMATION FOR SEQ ID NO: 8 :

SEQUENCE CHARACTERISTICS:
 LENGTH: 399 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-445-461-8

Query Match 44.0%; Score 2167; DB 3; Length 399;
 Best Local Similarity 99.7%; Pred. No. 2.2e-147; Indels 0; Gaps 0;
 Matches 398; Conservative 0; Mismatches 1;

19 DADMKGHFFPAKCRYALGMQRTIPSDIAASSWSDSTARHSLESSGDRGAMCPASS 78
 QY ; MOLECULE TYPE: protein ;
 Db 1 DADMKGHFFPAKCRYALGMQRTIPSDIAASSWSDSTARHSLESSGDRGAMCPASS 60
 QY ; US-08-701-191A-25 ;
 Db 79 VPKKEEYLYQDQLQRHLHLVLTGTOGRHAGLGEKESRSRRLYSDGRGAMWDRWQ 138
 Db 61 VPKKEEYLYQDQLQRHLHLVLTGTOGRHAGLGEKESRSRRLYSDGRGAMWDRWQ 120
 QY ;
 Db 139 EVISGNEDPEGVULKDQPAVARYRFPYRADMVSCRLVLYGCLWHDGLSYTAPV 198
 Db 121 EVISGNEDPEGVULKDQPAVARYRFPYRADMVSCRLVLYGCLWHDGLSYTAPV 180
 QY ;
 Db 199 GOTMYLSEAVVYLNDSTYDGHYGGLQYGGQGQALDWGUGVGLDFFRSQELNLYPGYGV 258
 Db 181 GOTMYLSEAVVYLNDSTYDGHYGGLQYGGQGQALDWGUGVGLDFFRSQELNLYPGYGV 240
 QY ;
 Db 259 SNHSSSGYVMEFEDRLRAFOAMQVHCNMNHTGARLGGVECRFRGPMANEGEPN 318
 Db 301 RHNLLGNGLGPRAVSVPLGGYVARFLQCRFLFAGWPWLSEISFISDVNNNSPAGG 360
 QY ;
 Db 241 SNHSSSGYVMEFEDRLRAFOAMQVHCNMNHTGARLGGVECRFRGPMANEGEPN 300
 Db 319 RHNLLGNGLGPRAVSVPLGGYVARFLQCRFLFAGWPWLSEISFISDVNNNSPAGG 378
 Db 379 TPPPAWWPPGPPPNESSEPLEPQGQOPAKAESPTA 417
 Db 361 TPPPAWWPPGPPTNESSEPLEPQGQOPAKPEGSPTA 399
 RESULT 13
 US-08-701-191A-25
 Sequence 25, Application US/08701191A
 Patent No. 5912428
 GENERAL INFORMATION:
 APPLICANT: Moosa Mohammadi, Joseph Schlessinger,
 TITLE OF INVENTION: CRYSTALS OF THE TYROSINE KINASE DOMAIN
 NUMBER OF SEQUENCES: 41
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 633 West Fifth Street
 CITY: Los Angeles
 STATE: California
 COUNTRY: U.S.A.
 ZIP: 90071-2066
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: IBM P.C. DOS 5.0
 SOFTWARE: FASTSEQ FOR Windows 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/701-191A
 FILING DATE: August 21, 1996
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Warburg, Richard J.
 REGISTRATION NUMBER: 312,327
 REFERENCE/DOCKET NUMBER: 227/088
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (213) 489-1600
 TELEFAX: (213) 955-0440
 TELEX: 67-3510
 INFORMATION FOR SEQ ID NO: 25:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 317 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 RESULT 14
 US-08-162-402B-20
 Sequence 20, Application US/08162402B
 Patent No. 5972337
 GENERAL INFORMATION:
 APPLICANT: CERIANT, ROBERTO L.
 APPLICANT: PETERSON, JERRY A.
 APPLICANT: LAROCCA, DAVID J.
 TITLE OF INVENTION: GLOBULE (HMGF) ANTIGEN, FRAGMENTS & FUSION PROTEIN
 NUMBER OF SEQUENCES: 29
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Pretty, Schroeder & Poplawski
 STREET: 444 South Flower St., 19th Floor
 CITY: Los Angeles
 STATE: CA
 COUNTRY: USA
 ZIP: 90071
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ FOR Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/162,402B
 FILING DATE: 03-DEC-1993
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Amzel, Viviana
 REGISTRATION NUMBER: 30,930
 REFERENCE/DOCKET NUMBER: P66 38215
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 213-622-7700
 TELEFAX: 213-489-4210
 TELEX:
 INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:
 LENGTH: 156 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: Peptide
 US-08-162-402B-20

Query Match 17.0%; Score 838; DB 2; Length 156;
 Best Local Similarity 100.0%; Pred. No. 6.9e-3;
 Matches 156; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 KCRYALGMQDRTRIPDSISASSSSWSPSTAARRSIRLESSDGDCAWCPCASVFRKEEYIQLV 89
 Db 1 KCRYALGMQDRTRIPDSISASSSSWSPSTAARRSIRLESSDGDCAWCPCASVFRKEEYIQLV 60

QY 90 DQQLHLVALVYGTQGRFAGGKEFERSYRYSRGRGQWQKDRHQEVISGNEDPEG 149
 Db 61 DQQLHLVALVYGTQGRFAGGKEFERSYRYSRGRGQWQKDRHQEVISGNEDPEG 120

QY 150 VVLDGQPPMVARLVRVYPRADRVMSVCLRVLYGC 185
 Db 121 VVLDGQPPMVARLVRVYPRADRVMSVCLRVLYGC 156

RESULT 15
 US-08-339-578-2
 ; Sequence 2, Application US/08339578

PATENT NO. 5622862
 GENERAL INFORMATION:
 APPLICANT: Squinto, et al.
 TITLE OF INVENTION: ASSAY SYSTEMS FOR NEUROTROPHIN ACTIVITY
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Regeneron Pharmaceuticals, Inc.
 STREET: 777 Old Saw Mill River Road
 CITY: Tarrytown
 STATE: New York
 COUNTRY: U.S.A.
 ZIP: 10591-6707

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US08/339,578
 FILING DATE: 14 NOV-1994
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/690,199
 FILING DATE: 23 APR-1991

ATTORNEY/AGENT INFORMATION:
 NAME: Kampler, Gail M.
 REGISTRATION NUMBER: 32,143
 REFERENCE/DOCKET NUMBER: 6526-061A

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (914) 345-7400
 TELEFAX: (914) 345-7721
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 821 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-339-578-2

QY 373 SPALGGTPPAPWMPPGPPPTNESSLELPRGQCPVAKAESPTAIIIGCLVIAILLL 432
 Db 217 SCVGGDPPLPTLYWDVGMLVSKHNETSTHTOSLRTNTISSDSGKQSCV----- 267

QY 433 LIAALMLWHLHWRRLSKERRVLEELTIVHLSV--PGDTIINNRPQREP----- 482
 Db 268 -----AENLVGEDODPSVNLTVHAPTTEL-----ESPTSDHHWC 302

QY 483 -PQEPRPRGRGNPPHSAPOCPVNGS-----ALLSNA-----Y 513
 Db 303 IPLL---TTRGNPRAQPMFVNGALINSSKIVTAKINTHHCQLQDNFTHMNGDY 359

QY 514 RLLI-----ATYARPRPGPGPPTPAWAKPTNTQAYSGDYMPE 551
 Db 360 TLMKNEYGKDERQISAIHFMGRPGVGDYETNPNEYEVLEDWPTPTD-----GDTNPKSNE 415

QY 552 KCGARLPPRPPNSVPIXAEDIVTLAG----- 580
 Db 416 IPSTDVAQSNRHELSVYAVVIALSVWFGCFLVMLLKLARHSKFGMKGPAVLSND 475

QY 581 -----TGGTYAVFALPPGAVGDP-----PRVDEP-----RS 608
 Db 476 SASPLHHSINGNTSPSSSEGGDAVICKTAKPVENQFEGTINSOLKPTFVQHKR 535

QY 609 RARFKEKIGEGERGEVCE--VDSQDYLSDFLPENRKGHPLVAKTLRDPDKNA 665
 Db 536 NTYVLRKELGEAGKVKFLAEYCNLCPDQ-----KILVAVKTLK-DASDNA 580

QY 666 SFSLSFRNDRLEKVKIMSKRPNLIIQVQDPLCMTDYMENGDLNQFLSHQLE 725
 Db 581 -----RRDFHRAEELTINLQHEHIVTYGIVGEGPLIMFEYMHGDENKFLRAHGD 634

QY 726 D-KAAEGPGDQQAQAGPT-15YPMILHVAQATASGNRYLATLNFYHRDLATRNCLVGEN 783
 Db 635 AVIMAEGN-----PTELTQSOMHIAQOIAQSMVLAQHFRDIAATRNCLVGEN 686

QY 784 FTKIADFGMSRNLYAGDYYRQGRATPLIRMAWICLIMCKFTTASDWAQFGVILWEVL 843
 Db 687 LLVKIGDFGMSRDVYSTDYRQVGGHMLPIRWMPPESMYRKFTTESDWNLGVWLTIF 746

QY 844 MCRAGPQEGQLEDEVINAEFFRQGQVLSRPAQCGLYEMLRWSREBQRP 903
 Db 747 TYGK-OPWYQSLNEVIECI----TQGR--VLRPRTCPQEVYELMGQWQREPHTRK 798

QY 904 FSQLHRLF 911
 Db 799 IKSINTL 805

Search completed: October 4, 2002, 07:41:03
 Job time: 168 sec